# TRANSLATION PATENT COOPERATION TREATY POT

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 09714			FOR FURTHER AC	CTION	See Form PCT/IPEA/416					
International application No.			International filing date	e (day/month/year)	Priority date (day/month/year)					
PCT/JP2004/019694			22.12.2004	l-	26.12.2003					
Internati	International Patent Classification (IPC) or national classification and IPC									
C12N15/09, C07K16/18, C07K16/42, G01N33/53, G01N33/543, C12P21/08										
Applicant Dainippon Sumitomo Pharma Co., Ltd.										
1.	1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.									
2.	This REPORT	consists of a total of	4	sheets, including	g this cover sheet.					
3.										
	a. (se	ent to the applicant and	to the International Bure	eau) a total of	sheets, as follows:					
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).									
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental									
	. 🖂 .	Box.								
	b (se	ent to the International	Bureau only) a total of (i	ndicate type and number	r of electronic carrier(s))					
	, containing a sequence listing and/or tables									
	related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).									
4.	This report co	ntains indications relati	ng to the following items	s:						
	Box N	o. I Basis of the	report							
	Box N	o. II Priority								
	Box N	o. III Non-establi	shment of opinion with r	egard to novelty, inventi	ive step and industrial applicability					
	Box N	o. IV Lack of uni	ty of invention							
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
	Box N	o. VI Certain doc	uments cited							
	Box No. VII Certain defects in the international application									
	Box No. VIII Certain observations on the international application									
Date of submission of the demand			[	Date of completion of thi	s report					
Name and mailing address of the IPEA/JP				Authorized officer						
Facsimile No.			Г	Геlephone No.						

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/019694

Box	No. I	Basis of the report		
1.		h regard to the language, this report is based on the internation	onal application in the language in which	nit was filed, unless otherwise
		This report is based on translations from the original language which is the language of a translation furnished for the purport international search (Rule 12.3 and 23.1(b))  publication of the international application (Rule 12.4 international preliminary examination (Rule 55.2 and	poses of:	,
2.	rece	h regard to the <b>elements</b> of the international application, this iving Office in response to an invitation under Article 14 as report):  the international application as originally filed/furnished the description:	report is based on (replacement sheets	
		pages pages*		
		pages*		_
	ш	nos.		as originally filed/furnished
		nos.*	as amended (together with	any statement) under Article 19
		nos.*	received by this Authority on	
		nos.*	received by this Authority on	
		the drawings: sheets		as originally filed/furnished
		sheets*	received by this Authority on	
		sheets*	received by this Authority on	
		a sequence listing and/or any related table(s) - see Supplen	nental Box Relating to Sequence Listing	
3.		The amendments have resulted in the cancellation of:		
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
4.		This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as for		
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
*	If ite	em 4 applies, some or all of those sheets may be marked "sup	perseded."	

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. V		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement					
	Novelty (	(N)	Claims	1-18	YES	
			Claims		_ NO	
	Inventive	step (IS)	Claims		YES	
			Claims	1-18	_ NO	
	Industrial	l applicability (IA)	Claims	1-18	YES	
			Claims		_ NO	

2. Citations and explanations (Rule 70.7)

Document 1: Int. Archs. Allergy Appl. Immun., 1985, 77
(4), pages 438 to 444

Newly cited document:

Document 2: Int. Archs. Allergy Immunol., 1993, 102 (2), pages 176 to 184

The inventions set forth in claims 1 to 18 do not involve an inventive step in the light of document 1 cited in the international search report and newly cited document 2.

Document 1 indicates that a fraction containing a large quantity of IgE is prepared from the blood serum of a guinea pig immunized with antigens in order to prepare an antibody to guinea pig IgE.

Document 2 indicates that IgE that does not contain other immunoglobulin is isolated from canine blood serum, and a method for doing so.

It would be easy for a person skilled in the art to conceive of employing the method of refining IgE set forth in document 2 in the preparation of a fraction containing a large quantity of guinea pig IgE set forth in document 1 in order to obtain IgE with a high degree of purity, and to use the antibodies to the refined

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

guinea pig IgE thus obtained in different types of measurements of immunity. Moreover, with regard to the effect of the invention of this application, the present invention does not offer a marked effect in the light of the invention set forth in documents 1 and 2 and the protein refining methods which were known at the time of filing of this application.

In the response to the written opinion, the applicant claims that the guinea pig IgE obtained in the embodiment of this application contains extremely high concentrations of IgE with maintained bioactivity compared to the canine IgE obtained using the refining method set forth in document 2.

However, there is no specification by refining method in claims 1 to 18, and the quantitative disclosure of bioactivity and bioactive properties only specifies the cross reaction rate between guinea pig IgG and IgM in claim 9, and there is no disclosure of the bonding capacity of guinea pig IgE mast cells and the bonding capacity with antigens.

That being the case, claims 1 to 18 broadly contain, aside from the guinea pig IgE having excellent bioactivity such as that obtained by the embodiment of this application, and its related inventions, guinea pig IgE having low bioactivity and its related inventions.

Therefore, viewed overall, it would be easy for a person skilled in the art to conceive of the inventions set forth in claims 1 to 18 in the light of documents 1 and 2.